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REMARKS

By the present amendments, claims 1, 25, 27, 33, 51, 75, 77 and 83 have been amended, and claims 26 and 76 have been canceled. Accordingly, claims 1-5, 9-21, 23, 25, 27-31, 33-46, 49-56, 59-71, 73, 75, 77-81 and 83-86 remain in the present application.

In the Office Action mailed May 17, 2007, the Examiner allowed claims 14-21, 23, 41-46, 49, 50, 64-71 and 73, rejected claims 1-6, 9-13, 25-31, 33-37, 51-56, 59-63, 75-81 and 83-86, and objected to claims 38-40.

Applicant respectfully responds to this Office Action.

A. Rejection under 35 USC 103(a)

The Examiner has rejected claims 1-5, 9-13, 51-55 and 59-63 under 35 USC 103(a) as being unpatentable over Brunner et al (US 6567462), in view of Yamada et al (US 5822364). The Examiner has also rejected claims 25-31, 33, 37, 75-81, 83 and 86 under 35 USC 103(a) as being unpatentable over Furukawa et al (US 6414985), in view of Yamada et al (US 5822364). Applicant respectfully disagrees; however, to expedite prosecution of the present application, applicant has amended claims 1 to specify generation of "a plurality of coherent sums, each comprising one of the first correlation values." See, e.g., Fig. 4 (elements 406A, 406B, 406C) and page 11, lines 12-32 of the present application. Independent claims 25, 33 and 75 have been similarly amended.

The Examiner acknowledges Brunner and Furukawa fails to disclose this limitation (see p.3 and p.5 of the Detailed Action), but cites Yamada as purported disclosing this feature. However, the cited section of Yamada (Fig. 2 and col. 6:9-16) fails to disclose this limitation. Significantly, Yamada discloses a single adder 17 for producing a single output. Accordingly, applicant respectfully submits claims 1, 25, 51 and 75 are patentably distinct over the cited references of record. Allowance of claims 1, 25, 51 and 75 and their corresponding dependent claims are respectfully requested.

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B. Allowable claims

Claims 14-21, 23, 41-46, 49, 50, 64-71 and 73 stand allowed. The Examiner has also indicated that claims 38-40 would be allowable if rewritten in independent form, incorporating the limitations of the base claim and any intervening claims. Applicant appreciates the Examiner's statement of allowable subject matter in these claims.

CONCLUSION

In view of the foregoing, applicant submits that all pending claims in the application are patentable. Accordingly, reconsideration and allowance of the present application are respectfully requested. Should any issues remain unresolved, the Examiner is encouraged to telephone the undersigned at the number provided below.

No fees are believed due in connection with the present submission. However, if it is determined that fees are due, the Commissioner is hereby authorized to charge payment of any fee(s) or any underpayment of fee(s) or credit any overpayment(s) to Deposit Account No. 17-0026. If necessary, applicant requests, under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above-identified application and to charge the fees for a large entity under 37 CFR 1.17(a).

Respectfully submitted,

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